Title (en)

PILOT TYPE SOLENOID VALVE

Title (de)

PILOTMAGNETVENTIL

Title (fr)

ÉLECTROVANNE DE TYPE PILOTE

Publication

**EP 3330585 B1 20191009 (EN)**

Application

**EP 17209985 A 20150803**

Priority

- JP 2014159780 A 20140805
- EP 15179571 A 20150803

Abstract (en)

[origin: EP2982890A1] A pilot type solenoid valve (1) includes a pilot valve unit and a passage block unit. The passage block unit has a rectangular parallelepiped shape including a pair of wide opposite surfaces, and four side surfaces surrounding the wide opposite surfaces. The four side surfaces include a first surface on which the pilot valve unit is attached, and a second surface formed with at least either an input port (49) or an output port (50). A valve element is a diaphragm valve and arranged in parallel to the pair of wide opposite surfaces. The passage block unit includes a block body (40) forming a valve chamber (43) around a valve seat (55), and a flat cover. The flat cover includes a recess forming the back chamber of the diaphragm valve, and the flat cover has a flat cover communication path formed to provide communication between the recess and a common path of the pilot valve unit.

IPC 8 full level

**F16K 31/40** (2006.01); **F15B 13/08** (2006.01); **F16K 27/00** (2006.01); **F16K 27/02** (2006.01)

CPC (source: CN EP US)

**F15B 13/0405** (2013.01 - EP US); **F15B 13/0839** (2013.01 - EP US); **F16K 7/12** (2013.01 - US); **F16K 11/022** (2013.01 - CN); **F16K 27/003** (2013.01 - EP US); **F16K 27/0236** (2013.01 - EP US); **F16K 27/0263** (2013.01 - CN); **F16K 27/029** (2013.01 - CN); **F16K 31/0641** (2013.01 - CN); **F16K 31/0655** (2013.01 - US); **F16K 31/402** (2013.01 - EP US); Y10T 137/87885 (2015.04 - EP US)

Designated contracting state (EPC)

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DOCDB simple family (publication)

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**EP 15179571 A 20150803**; CN 201510474715 A 20150805; EP 17209985 A 20150803; JP 2014159780 A 20140805; KR 20150108570 A 20150731; US 201514797514 A 20150713